



INSTYTUT TECHNOLOGII DREWNA

WOOD TECHNOLOGY INSTITUTE • INSTITUT FÜR HOLZTECHNOLOGIE • INSTITUT DE TECHNOLOGIE DU BOIS
WINIARSKA 1 • 60-654 POZNAŃ - POLAND • phone: (061) 8492-400 • fax: (061) 822-43-72
e-mail: office@itd.poznan.pl
Notified Body N° 1583



AB 088

WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE, WOODEN CONSTRUCTIONS AND WORKING MACHINES TESTING LABORATORY



Laboratory accredited by the Polish Centre for Certification, signatory of EA MLA, Accreditation No. AB 088
Extension of testing:
wood, wood-based materials, packaging, furniture, wooden constructions and woodworking machines

ENVIRONMENTAL PROTECTION AND SAFETY TESTING SECTION

Poznań, 8.03.2010

TEST REPORT No. 281/2010/S.F

Subject of the order Testing of formaldehyde emission from oak and ash parquet by the chamber method acc. to PN-EN 717-1:2006

Order No. A-281-BOŚ/2010

Name and address of the customer Przedsiębiorstwo Drzewne „Jawor” Antoni Jan Gawiński
ul. Grunwaldzka 87, 13-300 Nowe Miasto Lubawskie

Performance date 23.02 – 02.03.2010

Operators

First name and surname	Signature
mgr inż. Anna Tymek	<i>A. Tymek</i>
mgr inż. Magdalena Czajka	<i>M. Czajka</i>

Laboratory stamp
INSTYTUT TECHNOLOGII DREWNA
LABORATORIUM BADANIA DREWNA
MATERIAŁÓW DREWNOPOCHODNYCH
OPAKOWAŃ, MEBLI, KONSTRUKCJI I OBRABIAREK
60-654 Poznań, ul. Winiarska 1

Head of Section
ENVIRONMENTAL PROTECTION AND
SAFETY TESTING
Aleksandra Dziwanowska-Pudliszak
Aleksandra Dziwanowska-Pudliszak, Ph.D.

1. IDENTIFICATION (DESCRIPTION) OF TEST SAMPLES

The objects of testing were 2-layer parquets finished with UV lacquer:

- 11 mm thick oak premium – identification number of the sample A-281-BOŚ/2010-1
- 14 mm thick ash elegance – identification number of the sample A-281-BOŚ/2010-2.

The products were produced in 50th week of 2009 by Przedsiębiorstwo Drzewne „Jawor” Antoni Jan Gawiński in Nowe Miasto Lubawskie.

2. DELIVERY DATE OF TESTED OBJECTS

The sample was taken by the customer and delivered for testing in ITD on 18.02.2010.

3. SYMBOLS AND NAMES OF THE TEST METHODS APPLIED

The tests were performed according to the standard PN-EN 717-1:2006 entitled: “Wood-based panels – Determination of formaldehyde release – Part1: Formaldehyde emission by the chamber method”

4. LIST OF MEASURING AND TEST EQUIPMENT

The following equipment was used for the tests:

- chambers 22 and 23 of the capacity of 1 m³; room 12a, identification number: F7/17, F7/18,
- gas meters, room 12a, identification number: F7/26, F7/27,
- balances for mass determination, room 12a, identification number: F1/1, F1/2,
- spectrophotometer room 12a, identification number: F4/3,
- water bath room 12a, identification number: F4/34.

5. TEST RESULTS

Tests results are presented in protocols No. 1/281/2010/S.F and No. 2/281/2010/S.F

6. STATEMENT

The test results presented in the protocols relate solely to the tested samples.
The test report cannot be copied in parts but only in its entirety.

PROTOCOL NO. 1/281/2010/S.F
DETERMINATION OF FORMALDEHYDE RELEASE BY THE CHAMBER METHOD
 – Acc. to PN-EN 717-1:2006

Type of material/product				11 mm thick 2-layer oak premium parquet		
Test date				23.02 – 2.03.2010		
Sample identification No.: A-281-BOŚ/2010-1				Chamber 22 capacity 1.0 m ³		
Time of exposition of the sample in the chamber [24 h]	Test date	Climate conditions in the chamber		Test number	Concentration of formaldehyde in the chamber [mg/m ³]	Concentration of formaldehyde in the chamber [ppm]
		Temperature [° C]	Relative humidity [%]			
2	25.02.2010	23±0,5	45% ±3	1	0.0085	0.007
				2	0.0080	0.006
3	26.02.2010			1	0.0080	0.006
				2	0.0107	0.008
6	01.03.2010			1	0.0075	0.006
				2	0.0075	0.006
7	02.03.2010			1	0.0068	0.005
				2	0.0105	0.008
Average equilibrium concentration of formaldehyde in the air of the chamber					0.008	0.007
Confidence interval of the actual formaldehyde concentration with probability of 95% 0.008 mg/m ³ ± 0.001						

Operator

Date

Signature

Anna Tymek

09.03.2010

A. Tymek

PROTOCOL NO. 2/281/2010/S.F
DETERMINATION OF FORMALDEHYDE RELEASE BY THE CHAMBER METHOD
 – Acc. to PN-EN 717-1:2006

Type of material/product				14 mm thick 2-layer ash elegance parquet				
Test date				24.02 – 2.03.2010				
Sample identification No.: A-281-BOS/2010-2				Chamber 23 capacity 1.0 m ³				
Time of exposition of the sample in the chamber [24 h]	Test date	Climate conditions in the chamber		Test number	Concentration of formaldehyde in the chamber [mg/m ³]	Concentration of formaldehyde in the chamber [ppm]		
		Temperature [° C]	Relative humidity [%]					
1	25.02.2010	23 ° C ± 0,5	45% ±3	1	0.0090	0.007		
				2	0.0111	0.009		
2	26.02.2010			1	0.0112	0.009		
				2	0.0123	0.009		
5	01.03.2010			1	0.0086	0.007		
				2	0.0096	0.008		
6	02.03.2010			1	0.0079	0.006		
				2	0.0115	0.009		
Average equilibrium concentration of formaldehyde in the air of the chamber					0.010	0.008		
Confidence interval of the actual formaldehyde concentration with probability of 95% 0.010 mg/m ³ ± 0.001								

Operator

Date

Signature

Anna Tymek

09.03.2010

A. Tymek
